#### **SECTION 06200**

## FINISH CARPENTRY

### PART 1 GENERAL

#### 1.1 **SUMMARY**

#### A. Scope

- Provide finish carpentry items as shown, as specified or as required to support finished
- Use a minimum of 50% of wood-based materials and products which are certified in accordance with the Forest Stewardship Council's (FSC) Principles and Criteria for any wood building components to meet criteria of LEED NC 2.2.
- Section includes all finish carpentry work, complete with accessories and related work, as indicated and specified, including but not necessarily limited to the following custom work:
  - Plastic laminate toilet room vanities and counters work.
  - 2. Shelving.
- C. Related Work Specified In Other Sections
  - Rough Carpentry Division 6.
  - Sinks In Countertops- Division 15. 2.

#### 1.2 **SUBMITTALS**

- A. Furnish submittals for items that are identified in this Section by a different typeface and a bracketed code (e.g., Item [L]). Refer to Division 1 General Requirements for definition of codes for types of submittals and the administrative requirements governing submittal procedure. General submittal requirements pertaining to this Section are specified herein under this Article.
- B. Finish Carpentry Shop Drawings [D]: Submit for review, completely detailed shop drawings showing all information necessary for the fabrication and erection of all work specified herein. The shop drawings shall show dimensions, construction details, jointing details, wood species and grade, trim, finishes, paneling layout, hardware and details relating to adjacent work.
- Finish Carpentry Product Data [P]: Submit product data on all catalogue-type components. C.
- D. Finish Carpentry Material Samples [S]: Submit samples of each of the following items:
  - Plastic laminate chips of colors, patterns and textures specified. 1.
  - Solid surface chips of colors, patterns and textures specified.
- Submittals of shop drawings, product data, and samples are required for all work of the Section per Division 1, General Requirements.

Giffels Professional Engineering Project No. SF070003 06200 - 1Issued: 02-19-09 Revision No. 0

## 1.3 QUALITY ASSURANCE

## A. Reference Standard

- 1. Use the "Quality Standards" of the Architectural Woodwork Institute (AWI) which are referenced and hereby made a part of this Section. Use "Premium Grade" for all work as defined in the latest edition of the AWI "Quality Standards".
- 2. Use plastic laminates which conforms to National Association of Plastic Fabricators.
- 3. Use grades of lumber, plywood and particleboard as defined by the rules of the recognized association of manufacturers producing the kind or species of lumber, plywood and particleboard specified in this Section. Use only lumber, plywood, and particleboard grade-stamped by the inspecting authorities.

### 1.4 SITE CONDITIONS

A. The woodwork manufacturer is responsible for dimensions not controlled by job conditions. Shop drawings shall show all required field measurements. The cooperation of the Contractor and the woodwork manufacturer is required to establish and maintain these field dimensions.

### 1.5 DELIVERY, STORAGE AND HANDLING

- A. It is the joint responsibility of the woodwork manufacturer and the Contractor to make certain that woodwork is not delivered until the building and storage areas are sufficiently dry and complete so that the woodwork will not be damaged. The Contractor will replace defective or damaged materials at no cost to the Owner.
- B. Crate, ship and deliver all materials to the Site and store in accordance with manufacturer's instructions and standards of the National Woodwork Manufacturers Association.
- C. Protect all finished surfaces after installation and finishing from damage and soiling. Maintain protection during subsequent work operations, and remove same upon Owner's Representative's acceptance or when instructed by Owner's Representative.

### **PART 2 PRODUCTS**

## 2.1 MATERIALS AND FABRICATION

### A. General

- Use lumber bearing the official trademark and grade of the manufacturer's association or inspection bureau under which it was manufactured and graded, except as specified otherwise herein. Use seasoned lumber, surfaced four sides and kiln or air dried to moisture content specified in association's rules, except that moisture content is limited to a maximum of 11 percent.
- Lumber Standards: Comply with DOC PS 20, "American Softwood Lumber Standard," for lumber and with applicable grading rules of inspection agencies certified by the American Lumber Standards Committee Board of Review.

Giffels Professional Engineering Project No. SF070003 06200 – 2
Issued: 02-19-09 Revision No. 0

- Softwood Plywood: Comply with DOC PS 1, "U.S. Product Standard for Construction and Industrial Plywood."
- Hardwood Plywood: Comply with HPVA HP-1, "Interim Voluntary Standard for Hardwood and Decorative Plywood."
- 5. Particle Board: Comply with ANSI A 208.1 Grade M-2 Exterior Glue.
- Preservative Treatment [P]: Comply with NWWDA I.S. 4 for exterior finish carpentry to receive water-repellent preservative treatment.

# Lumber Use And Species

- Furring, Grounds and Similar Use: WWPA "Standard", "No. 2 Common" or better, Douglas Fir-Larch, Hem-Fir, Pine, Engelmann Spruce, Cedar, or SPIB No. 2 Boards Southern Pine.
- Nailers, Blocking, Framing, Rough Bucks, and Rough Lumber Not Otherwise Specified: WWPA "Utility", "No. 3" or better, Douglas Fir, Hem-Fir, Lodgepole Pine, Western Cedars, or SPIB No. 2KD Southern Pine.

### Plastic Laminate Cores

- Plywood: Douglas Fir or Pine, interior A-D grade conforming to P.S. 1-74, or thicknesses
- Particle Board: Douglas Fir or Pine, mat-formed medium density conforming to Commercial Standard 236-66, of thicknesses indicated.

# D. Fastening Materials

- General: Furnish fastening materials of types appropriate for the conditions encountered, including wood to wood, wood to masonry or concrete and wood to metal.
- Nails and Staples: Galvanized carbon steel, conforming to the requirements of Fed. Spec. 2. FF-N-105B.
- Screws: Galvanized carbon steel conforming to the requirements of Fed. Spec. FF-S-107C and natural bright finish carbon steel conforming to the requirements of Fed. Spec. FF-S-111C.
- Bolts, Washers, Expansion Shields, and Nuts: Zinc-coated carbon steel, conforming to the requirements of Fed. Spec. FF-B-561C, FF-B-575C, FF-W-92A, FF-B-588C and FF-N-836D.
- 5. Adhesives: Aliphatic or phenolic-resin wood glue recommended for general carpentry use.

### *Plastic Laminate [P,D,S]*

- Plastic Laminate [S]: Provide high pressure plastic laminate consisting of melamine-impregnated surface papers laminated over phenolic-impregnated kraft layers under high pressure and heat, as manufactured by Formica, Nevamar, Pioneer, Textolite, Wilsonart, or Westinghouse, and conforming to National Electrical Manufacturers Association (NEMA) Publication No. LD3-1980, with low gloss finish, in colors, patterns, and textures as selected, per approved samples. Provide the following types:
  - Use NEMA LD-3, Standard Grade GP50, nominal .050 inch thick plastic laminate for straight horizontal and vertical surfaces.
- Adhesive: Water resistant, in accordance with AWI recommendations, and as recommended by plastic laminate manufacturer.

Giffels Professional Engineering Project No. SF070003 06200 - 3Issued: 02-19-09 Revision No. 0 Back Painting: Apply one coat of primer-sealer paint in the shop, on all wood surfaces and edges not covered with plastic laminate backer sheet, and that will be concealed in the finished work. See Painting – Division 9 for acceptable paint manufacturers and types.

#### F. *Typical Countertops* [P,D]

- Unless otherwise noted construct countertops of plywood or particleboard as detailed, with back and end splashes where shown, complete with supports, with all exposed surfaces (including exposed supports) and edges surfaced with plastic laminate of colors and patterns selected for each countertop.
  - AWI Quality Grade: Premium.
  - All Exposed Surfaces: Plastic laminate.

### G. Counters Work

- Counters [P,D]: Provide counters constructed of plywood with all exposed surfaces and edges surfaced with plastic laminate.
  - AWI Quality Grade: Premium

## H. Shelving [D,P]:

- Shelving: 3/4-inch particleboard or medium density fiberboard shelving with solid-wood front edge.
  - Shelf Cleats: 3/4-by-3 1/2-inch boards with holes to receive clothes rods, of same species and grade indicated above for interior lumber trim for opaque finish.
  - Shelf Brackets: Prime-painted formed steel.

### PART 3 EXECUTION

#### 3.1 **INSTALLATION**

## General Millwork

- Provide all wood blocking and framing required to support items of finish carpentry. Use fastening materials of types appropriate for the conditions encountered, including wood to wood, wood to masonry, and wood to metal stud framing. Counterbore holes for nuts and bolt heads, and countersink for screws. Use concealed fasteners in exposed surfaces of finish carpentry.
- Before installing finish carpentry, condition materials to average prevailing humidity in installation areas for a minimum of 24 hours.
- Do not use materials that are unsound, warped, improperly treated or finished, inadequately seasoned, or too small to fabricate with proper jointing arrangements. Do not use manufactured units with defective surfaces, sizes, or patterns.
- Furnish millwork in configurations shown and specified. AWI grading will take precedence over joiner details shown on Drawings. Provide tight joints. Miter exterior angles, cope interior angles and returns of trim moldings. Provide blind nailing where practicable. Secure work with finishing nails or screws and glue. Install trim in maximum practical
- On surfaces exposed to view, set all nail heads and spackle. Countersink all screw heads 5. and cover with neatly fitted wood plugs to match grain. Sand in accordance with AWI

Giffels Professional Engineering Project No. SF070003 06200 - 4Issued: 02-19-09 Revision No. 0 grading. Fit and scribe all work to walls or other finished work in a careful manner, so as not to injure the surface in any way.

### B. Plastic Laminate Work

- 1. Install support framing for countertops not set on base cabinets and anchor to adjacent construction; install countertops on supports and secure thereto, in accordance with reviewed shop drawings. Make all cut-outs in counter. Carefully install all plastic laminate items complete in-place, including all incidental items not specifically noted elsewhere, properly aligned, set plumb and rigidly secured. Provide adjustments, closures, etc., as may be necessary to close to adjacent items and construction. Scribe and closely fit all items to adjacent work. Provide backing, grounds, anchors, bolts, fasteners, etc., necessary for securing work in place. Set all work level and plumb, securely anchored in place. Anchor counters to walls and secure through the wall finish into the studs behind. Seal joints at adjacent work with sealant specified in Section 07900.
- 2. Paint all visible surfaces in plastic laminate work, other than finish plastic laminate itself, such as recesses, reveals, visible rough hardware, etc. Paint to match color of adjacent plastic laminate.

# C. Clean up

- 1. Clean up and dispose of all waste material and refuse that has been brought onto the job or that has accumulated as a result of the work. Leave the work broom clean or better.
- 2. Replace finish carpentry that is damaged or does not comply with requirements. Finish carpentry may be repaired or refinished if work complies with requirements and show no evidence of repair or refinishing. Adjust joinery for uniform appearance.
- 3. Touch up any damaged finishes to restore to new matching adjacent areas.

### **END OF SECTION**

Revision History	
Date	Rev. No.
Α	0
В	0
С	0
D	0
E	0
F	0
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Giffels Professional Engineering Project No. SF070003 Issued: 02-19-09